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1 [Model-driven development of Web applications: the AutoWeb system](#)



Piero Fraternali, Paolo Paolini

October 2000 ACM Transactions on Information Systems (TOIS), Volume 18 Issue 4

Publisher: ACM

Full text available: [pdf\(6.94 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 36, Downloads (12 Months): 639, Citation Count: 21

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, ...

Keyw ords: HTML, WWW, application, development, intranet, modeling

2 Ambient references: addressing objects in mobile networks



Tom Van Cutsem, Jessie Dedecker, Stijn Mostinckx, Elisa Gonzalez, Theo D'Hondt, Wolfgang De Meuter

October 2006 OOPSLA '06: Companion to the 21st ACM SIGPLAN conference on Object-oriented programming systems, languages, and applications

Publisher: ACM

Full text available: [pdf\(279.25 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 131, Citation Count: 0

A significant body of research in ubiquitous computing deals with *mobile networks*, i. e. networks of mobile devices interconnected by wireless communication links. Due to the very nature of such mobile networks, addressing and communicating with ...

Keyw ords: language design, mobile ad hoc networks, pervasive computing, remote object references, ubiquitous computing

3 Seconds matter: improving distributed coordination bytracking and visualizing display trajectories



Mike Fraser, Michael R. McCarthy, Muneeb Shaukat, Phillip Smith

April 2007 CHI '07: Proceedings of the SIGCHI conference on Human factors in computing systems

Publisher: ACM

Full text available: [pdf\(1.06 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 203, Citation Count: 0

Pauses in distributed groupware activity can indicate anything from technical latency through infrastructure failure to a participant's thoughtful contemplation. Unraveling these ambiguities highlights mismatches between unseen off-screen activities ...

Keyw ords: display trajectory, groupware, off-screen tracking, pen-based interaction

4 Participatory user centered design techniques for a large scale ad-hoc health information system



Tia Gao, Tammara Massey, Majid Sarrafzadeh, Leo Selavo, Matt Welsh

June 2007 HealthNet '07: Proceedings of the 1st ACM SIGMOBILE international workshop on Systems and networking support for healthcare and assisted living environments

Publisher: ACM

Full text available: [pdf\(265.69 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 179, Citation Count: 0

During mass casualty incidents, an enormous amount of data, including the vital signs of the patients, the location of the patients, and the location of the first responders must be gathered and communicated efficiently. The Advanced Health and Disaster ...

Keywords: embedded medical systems, participatory design, triage


5 SCADA-Linux Still Hard at Work

Vance Petree

February 1995

Linux Journal, Volume 1995 Issue 10es

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(21.15 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 16, Citation Count: 0

Time marches on, Linux marches on, and one of the cardinal rules of the universe manifests itself.

6 System-level power optimization: techniques and tools



Luca Benini, Giovanni de Micheli


April

ACM Transactions on Design Automation of Electronic Systems

2000

(TODAES), Volume 5 Issue 2

Publisher: ACM

Full text available:  [pdf\(385.22 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 670, Citation Count: 63

This tutorial surveys design methods for energy-efficient system-level design. We consider electronic systems consisting of a hardware platform and software layers. We consider the three major constituents of hardware that consume energy, namely computation, ...

7 An open-source CVE for programming education: a case study




Andrew M. Phelps, Christopher A. Egert, Kevin J. Bierre, David M. Parks

July

SIGGRAPH '05: ACM SIGGRAPH 2005 Courses

2005

Publisher: ACM

Full text available:  [pdf\(7.92 MB\)](#)

Additional Information: [full citation](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 571, Citation Count: 0

8 Level set and PDE methods for computer graphics



David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker
August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes

Publisher: ACM

Full text available: [pdf\(17.97 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 54, Downloads (12 Months): 1416, Citation Count: 4

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the ...

9 The elements of nature: interactive and realistic techniques



Oliver Deussen, David S. Ebert, Ron Fedkiw, F. Kenton Musgrave, Przemyslaw Prusinkiewicz, Doug Roble, Jos Stam, Jerry Tessendorf
August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes

Publisher: ACM

Full text available: [pdf\(17.65 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 79, Downloads (12 Months): 1679, Citation Count: 1

This updated course on simulating natural phenomena will cover the latest research and production techniques for simulating most of the elements of nature. The presenters will provide movie production, interactive simulation, and research perspectives ...

10 Exploiting perception in high-fidelity virtual environments



Additional presentations from the 24th course are available on the citation page

Mashhuda Glencross, Alan G. Chalmers, Ming C. Lin, Miguel A. Otaduy, Diego Gutierrez
July 2006 SIGGRAPH '06: ACM SIGGRAPH 2006 Courses

Publisher: ACM

Full text available: [pdf\(5.07 MB\)](#) [mov\(68:6 MIN\)](#)

Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 76, Downloads (12 Months): 1916, Citation Count: 1

The objective of this course is to provide an introduction to the issues that must be considered when building high-fidelity 3D engaging shared virtual environments. The principles of human perception guide important development of algorithms and techniques ...

Keywords: collaborative environments, haptics, high-fidelity rendering, human-computer interaction, multi-user, networked applications, perception, virtual reality

11 Communications of the ACM: Volume 51 Issue 1



January 2008 issue Volume 51 Issue 1

Publisher: ACM

Full text available: [pdf\(5.97 MB\)](#) [digital edition\(.00 bytes\)](#)

Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 247, Downloads (12 Months): 588, Citation Count: 0

12 Charles W. Bachman interview: September 25-26, 2004; Tucson, Arizona



Thomas Haigh

January 2006 ACM Oral History interviews

Publisher: ACM

Full text available: [pdf\(974.87 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 432, Citation Count: 0

Charles W. Bachman reviews his career. Born during 1924 in Kansas, Bachman attended high school in East Lansing, Michigan before joining the Army Anti Aircraft Artillery Corp, with which he spent two years in the Southwest Pacific Theater, during ...

13 Process migration



Dejan S. Milošević, Fred Douglass, Yves Paindaveine, Richard Wheeler, Songnian Zhou
September 2000 ACM Computing Surveys (CSUR), Volume 32 Issue 3

Publisher: ACM

Full text available: [pdf\(1.24 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 45, Downloads (12 Months): 677, Citation Count: 22

Process migration is the act of transferring a process between two machines. It enables dynamic load distribution, fault resilience, eased system administration, and data access locality. Despite these goals and ongoing research efforts, migration has ...

Keywords: distributed operating systems, distributed systems, load distribution, process migration


14 Power reduction techniques for microprocessor systems



Vasanth Venkatachalam, Michael Franz

September 2005 ACM Computing Surveys (CSUR), Volume 37 Issue 3

Publisher: ACM

Full text available:  [pdf\(602.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 46, Downloads (12 Months): 1086, Citation Count: 3

Power consumption is a major factor that limits the performance of computers. We survey the “state of the art” in techniques that reduce the total power consumed by a microprocessor system over time. These techniques are applied at various ...

Keywords: Energy dissipation, power reduction

15 Visualizing geospatial data



Theresa Marie Rhyne, Alan MacEachren, Theresa-Marie Rhyne

August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes

Publisher: ACM

Full text available:  [pdf\(14.01 MB\)](#) Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 39, Downloads (12 Months): 871, Citation Count: 0

This course reviews concepts and highlights new directions in GeoVisualization. We review four levels of integrating geospatial data and geographic information systems (GIS) with scientific and information visualization (VIS) methods. These include:• ...



16 [A gentle introduction to bilateral filtering and its applications](#)



Sylvain Paris

August 2007 SIGGRAPH '07: ACM SIGGRAPH 2007 courses

Publisher: ACM

Full text available:  pdf(27.35 MB)  mov(100:20 MIN)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 48, Downloads (12 Months): 438, Citation Count: 0

- Image-based modeling and photo editing *Oh et al.* ACM SIGGRAPH conference (c) 2001, Association for Computing Machinery, Inc. Reprinted by permission. <http://doi.acm.org/10.1145/383259.383310> - Fast bilateral filtering for the display of high-dynamic-range ...


17 [Projectors: advanced graphics and vision techniques](#)



Ramesh Raskar

August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes

Publisher: ACM

Full text available:  pdf(6.53 MB)

Additional Information: [full citation](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 40, Downloads (12 Months): 774, Citation Count: 1

18 [Separating access control policy, enforcement, and functionality in extensible systems](#)



Robert Grimm, Brian N. Bershad

February 2001 ACM Transactions on Computer Systems (TOCS), Volume 19 Issue 1

Publisher: ACM

Full text available:  pdf(164.03 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 292, Citation Count: 3

Extensible systems, such as Java or the SPIN extensible operating system, allow for units of code, or extensions, to be added to a running system in almost arbitrary fashion. Extensions closely interact through low-latency but type-safe interfaces to ...


Keywords: Java, SPIN, access check, auditing, extensible systems, policy-neutral enforcement, protection domain, protection domain transfer, security policy

19 System support for pervasive applications



Robert Grimm, Janet Davis, Eric Lemar, Adam Macbeth, Steven Swanson, Thomas Anderson, Brian Bershad, Gaetano Borriello, Steven Gribble, David Wetherall
November 2004 ACM Transactions on Computer Systems (TOCS), Volume 22 Issue 4

Publisher: ACM

Full text available:  [pdf\(1.82 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 350, Citation Count: 5

Pervasive computing provides an attractive vision for the future of computing. Computational power will be available everywhere. Mobile and stationary devices will dynamically connect and coordinate to seamlessly help people in accomplishing their tasks. ...

Key words: Asynchronous events, checkpointing, discovery, logic/operation pattern, migration, one.world, pervasive computing, structured I/O, tuples, ubiquitous computing


20 Modern approaches to augmented reality



Video files associated with this course are available from the citation page

Oliver Bimber, Ramesh Raskar
August 2007 SIGGRAPH '07: ACM SIGGRAPH 2007 courses

Publisher: ACM

Full text available:  [pdf\(46.17 MB\)](#) Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 75, Downloads (12 Months): 995, Citation Count: 0

This tutorial discusses the Spatial Augmented Reality (SAR) concept, its advantages and limitations. It will present examples of state-of-the-art display configurations, appropriate real-time rendering techniques, details about hardware and software ...

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